WHAT IS CLAIMED IS:

- 1. A network system comprising:
- a hub site;
- at least one remote site; and
- a satellite for transmitting data to and from the hub site and the remote site;

wherein call control and management messages between the hub site and the remote site use internet protocol (IP) addressing for identification.

- 2. The network system of Claim 1 further comprising a plurality of remote sites.
 - 3. The network system of Claim 2 further comprising:
- a first communication channel to transmit data to the plurality of remote sites; and
- a plurality of second communication channels to transmit data from the plurality of remote sites to the hub.

- 4. The network of Claim 1 wherein the hub site comprises:
- a primary network control modem for receiving and transmitting data and the call and control management messages to and from the hub site and for maintaining a network database; and
- at least one hub receive modem for receiving data from a remote site.
- 5. The network of Claim 4 wherein the hub site further comprises a secondary network control modem to take over functions of the primary network control modem should the primary network control modem fail.
- 6. The network of Claim 1 wherein the at least one remote site comprises a remote modem for continuously receiving data from the hub site and for transmitting data when required.

- 7. A network system comprising:
- a hub site;
- a plurality of remote sites; and
- a satellite for transmitting data to and from the hub site and the remote site;

wherein available bandwidth of the network is divided into separate channels for transmitting and receiving data; and

wherein call control and management messages between the hub site and the remote site use internet protocol (IP) addressing for identification.

- 8. A network system in accordance with Claim 7 wherein each channel in the network is configured to transmit data only to a defined remote site.
- 9. A network system in accordance with Claim 8 wherein the plurality of channels comprises:
- a first communication channel to transmit data to the plurality of remote sites; and
- a plurality of second communication channels to transmit data from the plurality of remote sites to the hub.

- 10. The network of Claim 9 wherein the hub site comprises:
- a primary network control modem for receiving and transmitting data and the call and control management messages to and from the hub site and for maintaining a network database; and
- at least one hub receive modem for receiving data from a remote site.
- 11. The network of Claim 10 wherein the hub site further comprises a secondary network control modem to take over functions of the primary network control modem should the primary network control modem fail.
- 12. The network of Claim 9 wherein each of the plurality of remote sites comprises a remote modem for continuously receiving data from the hub site and for transmitting data when required.
- 13. The network of Claim 10 wherein the primary network control modem maintains a database for storing configuration data and for distributing network data to the plurality of remote sites.

- 14. The network of Claim 10 wherein the data base stored in the primary network control modem maintains a listing of all the plurality of channels in the network; a listing of destination IP addresses and destination HDLC addresses for each of the plurality of channels; a listing of a minimum available bandwidth of each of the plurality of channels and a listing of a guaranteed maximum bandwidth of each of the plurality of channels.
- 15. The network of Claim 14 wherein the data base stored in the primary network control modem maintains a listing of encryption capability of each channel.